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L1	272	703/2.ccls. and @pd>="20081201"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/05/20 18:04
L2	25	flow adj induced adj crystal\$8	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/05/20 18:51


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Crystallization processes in quiescent and moving polymer melts under heat transfer conditions

G Eder, H Janeschitz-Kriegl, S Liedauer - Progress in Polymer Science, 1990 - csa.com

... exist only for a few polymers (eg PP). The pertinent difficulties should not be underestimated. Finally, with regard to **flow-induced crystallization**, only shear ...

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Structure development during shear flow-induced crystallization of i-PP: in-situ small-angle X-ray ... - ► ald-hk.com [PDF]

RH Somani, BS Hsiao, A Nogales, S Srinivas, AH ... - Macromolecules, 2000 - pubs.acs.org

... and growth in orientation-induced crystallization of i-PP is proposed. During flow, orientation causes alignment of chain segments of polymer molecules and ...

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A continuum model for flow-induced crystallization of polymer melts

AK Doufas, IS Dairanieh, AJ McHugh - Journal of Rheology, 1999 - link.aip.org

... on the Hamiltonian/Poisson Bracket formalism, combined with the Avrami equation, is developed to simulate flow-induced crystallization of polymer melts in ...

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Development and validation of a recoverable strain-based model for flow-induced crystallization of ... - ► tue.nl [PDF]

H Zuidema, GWM Peters, HEH Meijer - Macromolecular Theory and Simulations, 2001 - interscience.wiley.com

... final properties of semi-crystalline polymer products, such ... predict properties, a model for flow-induced nucleation and crystallization is required ...

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Flow-induced crystallization of polyethylene melts

MR Mackley, FC Frank, A Keller - Journal of Materials Science, 1975 - Springer

... The observation is consistent with the belief that flow induced fibrous crystallization occurs when polymer chains are aligned by the applied velocity gradient ...

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[BOOK] Flow-induced crystallization in polymer systems

RL Miller - 1979 - books.google.com

... Flow-Induced Crystallization in Polymer Systems Crystallization in polymeric systems under- going flow is of great importance to many commercial processes, eg ...

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Structure development during shear flow induced crystallization of i-PP: in situ wide-angle X-ray ...

RH Somani, BS Hsiao, A Nogales, H Fruitwala, S ... - Macromolecules, 2001 - pubs.acs.org

... Thorough knowledge of flow-induced crystallization in polymer melts is essential to control industrial processing methods such as extrusion, injection, and ...

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[CITATION] Mechanisms of flow induced crystallization

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MR Mackley, A Keller - Philosophical Transactions for the Royal Society of London, ..., 1975 - jstor.org

Polymer Chain Extension and Its Relation to Fibrous Crystallization MR Mackley ...

[Cited by 52](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 6 versions](#)

AK Doufas, AJ McHugh, C Miller - Journal of Non-Newtonian Fluid Mechanics, 2000 - Elsevier

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[BOOK] Flow properties of polymer melts

JA Brydson - 1970 - Published for the Plastics Institute [by] Iliffe

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A continuum model for flow-induced crystallization of polymer melts

 AK Doufas, IS Dairanieh, AJ McHugh - Journal of Rheology, 1999 - [link.aip.org](#)

... and M. Kersting, "Rheological properties of a ... and DA Tree, "Extensional flow-induced crystallization of a ... new elongational rheometer for polymer melts and ...

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[CITATION] Mechanisms of flow induced crystallization

AJ McHugh - Polymer Engineering and Science, 1982

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Structure development during shear flow-induced crystallization of i-PP: in-situ small-angle
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 RH Somani, BS Hsiao, A Nogales, S Srinivas, AH ... - Macromolecules, 2000 - [pubs.acs.org](#)

... and the resulting morphologies; shear flow accelerates, in ... 25 A summary of shear-induced crystallization studies has ... 26. It is known that polymer melts, under ...

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Development and validation of a recoverable strain-based model for flow-induced crystallization of ... - [► tue.nl](#) [PDF]

 H Zuidema, GWM Peters, HEH Meijer - Macromolecular Theory and Simulations, 2001 - [interscience.wiley.com](#)

... final properties of semi-crystalline polymer products, such ... predict properties, a model for flow-induced nucleation and crystallization is required ...

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Flow-induced properties of nanotube-filled polymer materials- [► nist.gov](#) [PDF]

 SB Kharchenko, JF Douglas, J Obrzut, EA Grulke, KB ... - Nature materials, 2004 - [nature.com](#)

... LCP), where there is a competition between flow-induced orientation and ... Douglas, JF "Shift" in polymer blend phase-separation temperature in shear flow. ...

 Cited by 70 - [Related articles](#) - [Web Search](#) - [All 10 versions](#)
Flow-induced crystallization of polyethylene melts

MR Mackley, FC Frank, A Keller - Journal of Materials Science, 1975 - Springer

... can have on the processing of polymer melts particularly ... of jet blocking due to crystallization show that ... A flow-induced fibrous crystal which is stable at all ...

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Structure development during shear flow induced crystallization of i-PP: in situ wide-angle
X-ray ...

 RH Somani, BS Hsiao, A Nogales, H Fruitwala, S ... - Macromolecules, 2001 - [pubs.acs.org](#)

... Thorough knowledge of flow-induced crystallization in polymer melts is ... such as extrusion, injection, and blow molding and resultant product properties. ...

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[BOOK] Flow-induced crystallization in polymer systems

RL Miller - 1979 - books.google.com

... Dr. Anagnostis E. Zachariades, **Polymer** Science and ... and SK UPADHYAYULA **Flow-Induced Crystallization** from the ... the Physical and Mechanical **Properties** of Extruded ...

Cited by 26 - Related articles - Web Search - Library Search

Simulation of melt spinning including flow-induced crystallization Part I. Model development and

AK Doufas, AJ McHugh, C Miller - Journal of Non-Newtonian Fluid Mechanics, 2000 - Elsevier

... Fiber spinning is an industrial **polymer** process of great commercial ... stresses that result in the so-called **flow** (or stress) **induced crystallization** (FIC). ...

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Key authors: **R Somani** - **J Brydson** - **B Hsiao** - **A McHugh** - **S Srinivas**

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